



Radiochemistry Webinars Nuclear Forensics Series

5/10/2016

Greetings,

The NAMP cordially invites you to attend web-based lectures on specific radiochemistry topics developed in cooperation with the EPA and other Federal agencies, and our university partners. Short (1- to 2-hour) webinars on specific radiochemistry topics are presented by renowned university professors and leading scientists in radiochemistry.

The Nuclear Forensics Series examines the existing technical capabilities and describes how these tools are essential to prevent and respond to acts involving nuclear and other radioactive materials out of regulatory control. As the threat from malicious acts involving nuclear and other radioactive materials persists, nuclear forensics depends upon innovative science and methodologies to identify the origin and history of these materials as part of an investigation of a nuclear security event. The webinar topics in this series incorporate the expertise of companion disciplines such as geochemistry, materials science, nuclear engineering and environmental science, which can provide accurate measurements and analysis important for identifying nuclear forensics signatures.

Please plan to join us for Nuclear Materials Analysis: Physical & Spectroscopic Methods

Who Should Attend: Laboratory Technicians, Chemists, Nuclear Engineers, Regulators, Managers & Students

Lecture Overview: This webinar introduces techniques for characterizing both the electronic structure and physical structure of materials; provides an understanding of photoelectron spectroscopy, x-ray absorption spectroscopy, x-ray diffraction, electron microscopies, and scanning probe microscopies; and uses examples from the nuclear industry to illustrate what each technique can accomplish.


Free Webcast: Thursday, May 26, 2016, at 1:00 pm Eastern Time (EDT), 12:00 pm Central Time (CDT)

Register NOW for this free webinar at: <https://fpdi.adobeconnect.com/analysis/event/registration.html>

For more information, please contact: Berta Oates at boates@portageinc.com or visit the NAMP website at <http://www.wipp.energy.gov/namp>

Meet the Presenter...

Dr. Jeff Terry

 **ILLINOIS INSTITUTE OF TECHNOLOGY** Dr. Jeff Terry is a professor of physics at the Illinois Institute of Technology, where his main research focus is on energy systems. His group works to develop new ways of dealing with radioactive waste, understand radiation damage mechanisms in materials, and synthesize novel materials for energy storage and conversion. He also simulates the economic costs of building new energy systems, including small modular nuclear reactors. Prior to joining the faculty at Illinois Tech, he was a staff scientist at Los Alamos National Laboratory (LANL). There, he worked on the Stockpile Stewardship and Management Program and the Waste Isolation Pilot Plant (WIPP) and was a member of the LANL team that sent the first waste shipment to WIPP. He is a former scientific director of the Advanced Test Reactor National Scientific User Facility. Dr. Terry is very active in science communication. He writes a regular column for the Bulletin of the Atomic Scientists and is an editor for the journal Applied Surface Science. Dr. Terry earned his doctorate in chemical physics from Stanford University in 1997 and his bachelor's degree in chemistry from the University of Chicago in 1990.



Upcoming NAMP Radiochemistry Webinars:

June 30, 2016 Nuclear Materials Analysis — Chemical Methods
July 28, 2016 Nuclear Materials Analysis — Non-Destructive Analysis
August 25, 2016 Nuclear Materials Analysis — Mass Spectroscopy



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